



RHWE OBJECTIVES :-

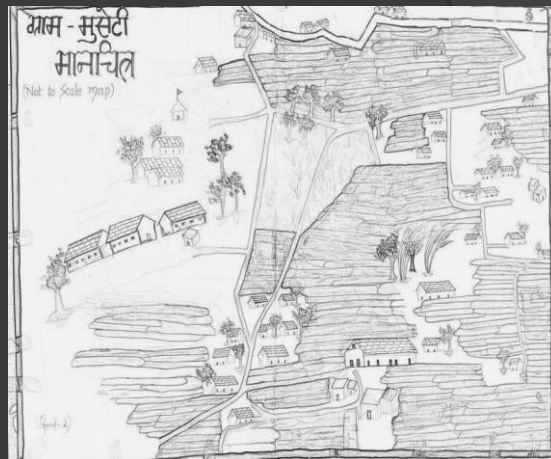
- Students need to practicalise theoretical knowledge.
 - To familiarize the students with socio-economic conditions of rural community.
 - To develop an understanding of rural and different situations prevailing in villages with special reference to horticulture.
 - To gain knowledge and experience on the operational aspects of horticultural technology being adopted by the farmers.
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- To provide an opportunity for practical training in crop production and plant protection through work experience.
- To help the students to understand the problems pertaining to horticulture in villages with special reference to constraints in application of latest technology.
- To develop communication skills in students using extension training methods in the transfer of horticultural production technology.
- To develop confidence and competence among students for problem solving and decision making.

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MUSAITI

- ✓ Total geo. Area:150 ha
- ✓ Altitude :1800 m ASL
- ✓ Total rainfed agri. area:100 ha
- ✓ Total families:80
- ✓ Total farm families:80
- ✓ Total population:1050
- ✓ Male:425
- ✓ Female:290
- ✓ Children:335
- ✓ Literate:945
- ✓ Illiterate:105



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- ✓ Temple: 01
- ✓ Govt. servant : 46 (soldiers)
- ✓ Primary school: 01
- ✓ High school: 01
- ✓ Teachers: 07
- ✓ Aanganbadi workers: 02

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VILLAGE HISTORY

- Village Musaiti is endowed with fertile soil and applaudable geographical location which won heart of Britishers. This was the reason, Mr. Henry choose the place for tea plantation.
- With the passage of time, Mr. Henry gifted his entire possession to his favorite cook Mr. Choffin.
- Mr. Choffin faced many problems in handling such a big plantation and he sold the entire plantation in 1855-86 to Mr. G.S Rawat in only 10,000rs (18 tola silver).
- After that many buyers came from nearby places and thus village Musaiti came into existence.

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WORK SCHEDULE

DAYS	DATE	WORK DONE
0.	26/09/16	Village allotment and introduction to villagers.
1.	27/09/16	Compost pit preparation and filling.
2.	28/09/16	Shed making of compost pit, renovation of vermipit.
3.	29/09/16	Preparation of onion nursery and demonstration for mandua laddu.
4.	30/09/16	Village school visit and sowing of onion seeds
5.	1/10/16	Poly tunnel preparation, field inspection
6.	2/10/16	Demonstration of card and basket making, mud hive preparation

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DAYS	DATE	WORK DONE
7.	3/10/16	Chilli pickle preparation ,seed distribution by KVK personnels, imparting knowledge about different crop growing technologies through pamphlets.
8.	4/10/16	Substrate preparation for mushroom production , preparation of vermi shed and preparation of vermiwash.
9.	5/10/16	Preparation of mushroom bags, planting of reetha, cinnamon and walnut.
10.	6/10/16	Preparation of rice kachri, community service by school children and group members.
11.	7/10/16	Hanging garden preparation and demonstration of basics of pruning in citrus , preparation of fodder block.
12.	8/10/16	Model preparation of ZECC,lemon pickle preparation and final filling of compost pit and covering it.
13.	9/10/16	Mulching of temperate fruit trees, imparting information about strawberry production and socio economic survey.

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UNITS ESTABLISHED	FARMER
▪ COMPOST PIT	MR.C. S. RAWAT
▪ MUD HIVE	SMT. KALI DEVI
▪ POLY TUNNEL	MR. ATUL RAWAT
▪ HANGING GARDEN	MR. JASWANT SINGH RAWAT
▪ VERMI COMPOST	MR. C. S. RAWAT
▪ MUSHROOM PRODUCTION	MR. CHANDRA SINGH NEGI
▪ ZERO ENERGY COOL CHAMBER (MODEL)	MR. JAGMOHAN SINGH RAWAT
▪ PLANTING:-	
➤ REETHA	
➤ CINNAMON	

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➤ KAFAL	
➤ WALNUT	
▪ POST HARVEST:-	
➤ CHILLI PICKLE	
➤ LEMON PICKLE	
➤ RICE KACHRI	
➤ MANDUA LADDU	
▪ FODDER BLOCK	MR. NETRA SINGH NEGI

❖ **NOTE:**
Tutorials were given to class 10th students daily from 4 to 5 p.m.

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DAY 1

◎ **COMPOST PIT PREPERATION :-**

- Dimensions: (1.5×1.5×1)m³
- **How to prepare:**
 - ✓ Spread a polysheet at the basal portion of pit.
 - ✓ Layer 1- green grasses and crop residue
 - ✓ Layer 2-cow dung
 - ✓ Fill the pit to the ground level with these alternately.
 - ✓ After the matter is 50% compressed ,again fill the pit completely and cover it with the mixture of cow dung and mud.
 - ✓ At the centre of the pit, make one hole with the help of a twig to maintain proper aeration.

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CONTD....



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DAY 2

◉ *Vermicompost pit renovation*



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Shed making over compost pit :-



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DAY 3

● Preparation of onion nursery:

Dimensions: (2.3×1)m² and (2×1)m² respectively.





Germination after 5 days

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Preparation of Mandua laddu:



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DAY 4

- **Village school visit:**
 - ✓ Different competitions were organised in school like;
 - ✓ Handwriting competition
 - ✓ Quiz competition
 - ✓ Singing competition
 - ✓ Prize and sweet distribution.
- ✓ Planting of Thuja and Hydranzia : school and temple premise.

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Sowing of onion seeds:

- Line sowing at a distance of 10cm.



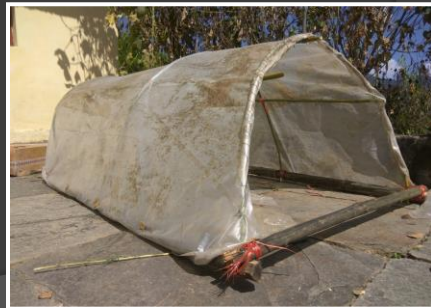
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DAY 5

● Polytunnel preparation:



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Field Inspection:



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INSECT PEST AND DISEASES OBSERVED

- Cabbage butterfly (*Pieris brassicae*)
- Cabbage aphid (*Brevicoryne brassicae*)
- Damping off in onion (*Fusarium oxysporum*)
- Blossom end rot in tomato (Due to deficiency of Calcium)

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DAY 6 :- MUD HIVE PREPARATION



Dimensions of mud hive

- Base:- $(80 \times 80 \times 15) \text{cm}^3$
- Height :- 43 cm
- Frame:- 15 cm(height)
38 cm (width)

Card and basket making (demonstration)



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DAY 7:- Seed distribution by KVK personnel



- Seeds of Onion and Pea were distributed to villagers.

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CHILLI PICKLE PREPARATION



INGREDIENTS:-

- Green chillies
- Mustard oil
- Salt
- Turmeric
- Asafoetida
- Fenugreek
- Kalaunji
- Rai
- Vinegar

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DAY 8 & 9 :- MUSHROOM PRODUCTION



Substrate Preparation: Cutting and filling of rice and wheat straw.

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CONTD...



Wetting of substrate in water containing bavistin and formalin.

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CONTD.....



Sun drying of substrate and preparation of mushroom bags.

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CONTD...



Spawn filling

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SHED PREPARATION (VERMICOMPOST)



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VERMIWASH PREPARATION



- LAYER 1 :- PEBBLES
- LAYER 2:- SAND
- LAYER 3:- SOIL WITH EARTHWORMS
- LAYER 4:- COW DUNG
- LAYER 5:- STRAW



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Planting of reetha, cinnamon, kafal and walnut



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DAY 10 :- Rice kachri



COMMUNITY SERVICE:-



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DAY 11 :- HANGING GARDEN PREPARATION:-



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FODDER BLOCK PREPARATION



- Napier grass is available throughout the year.
- Help in soil conservation.
- Increase milk yield.
- Planted at a distance of 2 feet.

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PAMPHLET DISTRIBUTION:-



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DAY 12 :- PREPARATION OF ZECC MODEL



Dimensions:-
(165×115×67.5)cm³



Distance between inner and outer wall:- 7.5 cm

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FILLING AND COVERING OF COMPOST PIT



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DAY 13:- LEMON PICKLE PREPARATION & SOCIO-ECONOMIC SURVEY



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DAY 14 :- VISIT & EXHIBITION



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Tutorials



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PROBLEMS FACED

- Lack of time : Villagers were totally indulged in their harvesting,threshing and storge works.
- Lack of communication among villagers: when we were giving demonstration ,we asked villagers to gather at a feasible place but they denied and told us to give demonstration at individual level.
- They ought to grow almost everything:This mentality leads to division of supervision and managarial problems.

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- Lack of proper education: They are aware of Pesticides and Fungicides but they are familiar with only one i.e. Dithane M-45 .They use it often and for every disease and disorder.
- Orthodox behaviour: A section of villagers were not ready to listen anything & by watching several demonstrations also they broadcasted the seeds of onion rather than line sowing.
- They use raw cow dung & making heaps of it outdoors & let it decompose in open.

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WHAT WE GAINED.....

- Traditional way of threshing .
- Their traditional way of storage of seeds and grains.
- We learnt how to use colocasia stem as vegetable.
- No matter what the conditions are, work must go on.
- To lend a helping hand by children to their mom & dad.
- To enjoy gifts of nature.
- Personality development.
- Real life experiences.
- Effective decision making skills.

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THANKYOU

